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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/692,765	10/19/2000	Thomas E. Saulpaugh	5181-65700	8734
58467	7590	10/28/2010		
MHKKG/Oracle (Sun)			EXAMINER	
P.O. BOX 398			DIVECHA, KAMAL B	
AUSTIN, TX 78767				
			ART UNIT	PAPER NUMBER
			2451	
			NOTIFICATION DATE	DELIVERY MODE
			10/28/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 09/692,765	Applicant(s) SAULPAUGH ET AL.	
	Examiner KAMAL B. DIVECHA	Art Unit 2451	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 September 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-48 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This Action is in response to communications filed 9/28/2010.

Claims 1-48 are pending in this application.

Response to Arguments

Applicant's arguments filed in the communications above have been fully considered but they are not persuasive.

In the communications filed, applicant argues in substance that:

a. Applicants respectfully submits that Chu-Carroll does not disclose either explicitly or under the principles of inherency the recited event message gate that both receives a message in a markup language and sends a markup language representation to client processes registered with the message gate unit (remarks, pg. 2-5).

In response to argument [a], Examiner respectfully disagrees.

In paragraphs [0079-0083], Chu-Carroll explicitly shows an example wherein the event system executing on the client side receives the registrations from the server, generates the events and sends the events in markup language representation to the server. As such, the event system executing at the client node and/or the client node which receives the registrations and sends notifications is equivalent to the applicant's event message gate and/or process.

b. Further...the event message gate...wherein the message includes a markup language representation of one of the one or more events...(remarks, pg. 3).

In response to argument [b], Examiner respectfully disagrees.

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In paragraph [0082], Chu-Carroll explicitly discloses that each event contains an XML document containing more detailed event information.

More specifically, Chu-Carroll explicitly discloses subscription-notification based event system, e.g. [79-83].

For the at least these reasons, applicant's arguments are considered not persuasive and the rejection is maintained.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –
(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-48 are rejected under 35 U.S.C. 102(e) as being anticipated by Chu-Carroll et al. (hereinafter Chu) (US 20060200488 A1)

Referring to claim 1,

Chu teaches a method for handling events in a distributed computing environment (Fig.2), comprising:

receiving, by an event message endpoint on a client platform in the distributed computing environment, indications from one or more client processes registering interest in receiving one

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or more of a plurality of events generated by a service in the distributed computing environment (para.[0022], [0031], [0079-0083]);

the event message endpoint automatically subscribing to the one or more events with the service in response to said indications registering interest in the one or more events received from the one or more client processes (para.[0022], [0031],[0039], [0079-0083]);

receiving, by the event message endpoint, a message in a markup language sent to the client platform in the distributed computing environment from the service in the distributed computing environment, wherein the message includes a markup language representation of one of the one or more events generated by the service to which the event message endpoint is subscribed (para.[0043]), [0052], [0079-0083]); and

sending, by the event message endpoint, the markup language representation of the event to at least one of the one or more client processes registered with the event message endpoint to receive the event (para.[0043]), [0052], [0079-0083]).

Referring to claim 2,

Chu teaches the method as recited in claim 1, further comprising prior to said receiving, by an event message endpoint on a client platform in the distributed computing environment, indications from one or more client processes on the client platform registering interest in receiving one or more of a plurality of events generated by a service in the distributed computing environment (para.[0043]), [0052]).:

obtaining a markup language schema on the client platform, wherein markup language schema defines a message interface for the plurality of events generated by the service(para.[0064]); and

automatically constructing the event message endpoint for the client platform according to the markup language schema, wherein said constructing is performed within a runtime environment of the client platform(para.[0067]-[0068]).

Referring to claim 3,

Chu teaches the method as recited in claim 1, further comprising the service sending one or more messages each including a markup language representation of an event to subscribers to the event in response to generation of the event by the service (para.[0022], [0031],[0039], [0043]), [0052]).

Referring to claim 4,

Chu teaches the method as recited in claim 1, wherein the markup language message from the service includes an authentication credential for the service, the method further comprising the event message endpoint authenticating the markup language message as being from the service according to the authentication credential for the service (para.[0067]-[0068]).

Referring to claim 5,

Chu teaches the method as recited in claim 1, further comprising the event message endpoint verifying type correctness of the markup language message according to the markup language schema prior to said sending the markup language representation of the event to the at least one of the one or more client processes (para.[0067]-[0068]).

Referring to claim 6,

Chu teaches the method as recited in claim 1, wherein the markup language schema defines a plurality of messages including markup language representations of the plurality of events generated by the service, the method further comprising the event message endpoint

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verifying correctness of the markup language message from the service according to the markup language schema prior to said sending the markup language representation of the event to the at least one of the one or more client processes (para.[0067]-[0068]).

Referring to claim 7,

Chu teaches the method as recited in claim 2, wherein said constructing said event message endpoint is performed by computer-executable message endpoint construction code on the client platform (para.[0022], [0031],[0039], [0043]), [0052]). .

Referring to claim 8,

Chu teaches the method as recited in claim 1, wherein said receiving indications from one or more client processes registering interest in receiving one or more of the plurality of events comprises receiving from each of the one or more client processes providing an event handler callback method for an event handler of the respective client process (Fig.2), and

wherein said sending the markup language representation of the event to at least one of the one or more client processes registered with the event message endpoint to receive the event comprises:

the event message endpoint calling an event handler callback method of each client process registered with the event message endpoint to receive the event; and the event message endpoint passing the markup language representation of the event to each called event handler (para.[0046], [0079], [0080], .

Referring to claim 9,

Chu teaches the method as recited in claim 1, further comprising: at least one client process unregistering interest in a first event of the service with the event message endpoint; and

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the event message endpoint automatically unsubscribing to the first event with the service in response to said unregistering interest by the at least one client process; wherein the service is configured to not send messages including markup language representations of the first event to event message endpoints that are unsubscribed to the first event (para.[0083]).

Referring to claim 10,

Chu teaches the method as recited in claim 2, wherein said obtaining a markup language schema comprises receiving the markup language schema of the service in a service advertisement of the service, wherein the service advertisement is a markup language document that defines each event message generated by the service (para.[0067]-[0068]).

Referring to claim 11,

Chu teaches the method as recited in claim 1, wherein the one or more client processes are executing within the client platform (Fig. 2, para.[0022], [0031],[0039], [0043]), [0052]).).

Referring to claim 12,

Chu teaches the method as recited in claim 1, wherein the event is a Java event (para.[0123]).

Referring to claim 13,

Chu teaches the method as recited in claim 1, wherein said markup language is eXtensible Markup Language (XML) (para.[0043])

Referring to claims 14-20 and 22-26,

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These claims are the claims to the device that carries out the method of claims 1, 2, 5, 6, 10, 3, 4, 8, 9, 11, 12, and 13 respectively. Therefore, these claim are rejected for the reasons set forth for their respective method claims.

Referring to claim 21,

Chu teaches the device as recited in claim 15, wherein, to implement the event message gate unit on the device, the program instructions are further executable by said processor to obtain an address for said service within the distributed computing environment; obtain an authentication credential indicating authorization to access said service; and construct the event message gate unit according to the markup language schema, the obtained address for the service, and the obtained authentication credential for the service (para.[0018], .

Referring to claim 27,

Chu teaches the device (Fig.2), comprising:

a processor;

a memory coupled to said processor, wherein said memory_ comprises program instructions executable by said processor to implement a service process configured to: generate an event (Fig.2, [0079-0083]);

generate a message in a markup language, wherein the message includes a markup language representation of the event generated by the service process (para.[0022], [0031],[0039], [0079-0083]); and

send the message to one or more event message gate units in a distributed computing environment that have each automatically subscribed to the event with the service process in

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response to one or more client processes registering interest in the event with the respective event message gate unit (para.[0043]), [0052]);

wherein each of the one or more event message gate units are operable to distribute the markup language representation of the event sent in the message from the service process to the one or more client processes registered with the respective event message gate unit to receive the event from the service process (para.[0043]), [0052], [0079-0083]).

Referring to claim 28,

Chu teaches the device as recited in claim 27, wherein the device further comprises a service message gate unit, wherein said generating a message and said sending the message are performed by the service message gate unit on behalf of the service process (Fig.2, elements206, 204).

Referring to claim 29,

Chu teaches the device as recited in claim 27, wherein the service process is further configured to:

provide a markup language schema within the distributed computing~ environment, wherein said markup language schema defines a message interface for a set plurality of events generated by the service process; and

wherein each of the one or more event message gate units is constructed according to the markup language schema within a runtime environment on a respective device within the distributed computing environment prior to said one or more client processes registering interest in the event with the respective event message gate unit (para[0066]-[0068]).

Referring to claim 30,

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Chu teaches the device as recited in claim 29, wherein the markup language schema defines a plurality of messages including markup language representations of the plurality of events generated by the service process (para[0066]-[0068]).

Referring to claim 31,

Chu teaches the device as recited in claim 29, wherein the service process is further configured to provide the markup language schema in a service advertisement, wherein the service advertisement is a markup language document that defines each event message generated by the service process (para[0066]-[0068]).

Referring to claim 32,

Chu teaches the device as recited in claim 27, wherein the service process is further configured to send one or more messages each including a markup language representation[[s]] of an event to event message gate units subscribed to the event Mac-n in response to generation of the event by the service process (para.[0022], [0031],[0039]);.

Referring to claim 33,

Chu teaches the device as recited in claim 27, wherein the service process is further configured to attach an authentication credential for the service process to the markup language message, wherein the event message gate units that receive the markup language message are configured to authenticate the markup language message as being from the service process according to the authentication credential attached to the message (para.[0067]-[0068]).

Referring to claim 34,

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Chu teaches the device as recited in claim 27, wherein the events are Java events (para.[0123]).

Referring to claim 35,

Chu teaches the device as recited in claim 27, wherein said data representation markup language is eXtensible Markup Language (XML) (para.[0043]).

Referring to claims 36-48,

These claims are the claims to non-transitory computer readable medium comprising program instructions that carries out the method of claims 1, 2, 3, 4, 5, 6, 21, 8, 9, 10, 11, 12, and 13 respectively. Therefore, these claim are rejected for the reasons set forth for their respective method claims.

Conclusion

Examiner's note: Examiner has cited particular columns and line numbers in the references as applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the Examiner.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KAMAL B. DIVECHA whose telephone number is (571)272-5863. The examiner can normally be reached on IFP (M-F: 10-6.30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN FOLLANSBEE can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/KAMAL B DIVECHA/

Primary Examiner, Art Unit 2451